

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 735 052 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
30.10.1996 Bulletin 1996/44

(51) Int Cl. 6: C08F 2/38, C08F 4/04,
C08F 4/28, C08F 212/00,
C08F 220/00

(43) Date of publication A2:
02.10.1996 Bulletin 1996/40

(21) Application number: 96302248.8

(22) Date of filing: 29.03.1996

(84) Designated Contracting States:
DE FR GB

• Veregin, Richard P.N.
Mississauga, Ontario L5L 5C3 (CA)
• Hamer, Gordon K.
Mississauga, Ontario L5L 2P4 (CA)
• Georges, Michael K.
Guelph, Ontario N1G 3N8 (CA)

(30) Priority: 30.03.1995 US 413663

(71) Applicant: XEROX CORPORATION
Rochester New York 14644 (US)

(72) Inventors:

- Odell, Peter G.
Mississauga, Ontario L5J 1L3 (CA)

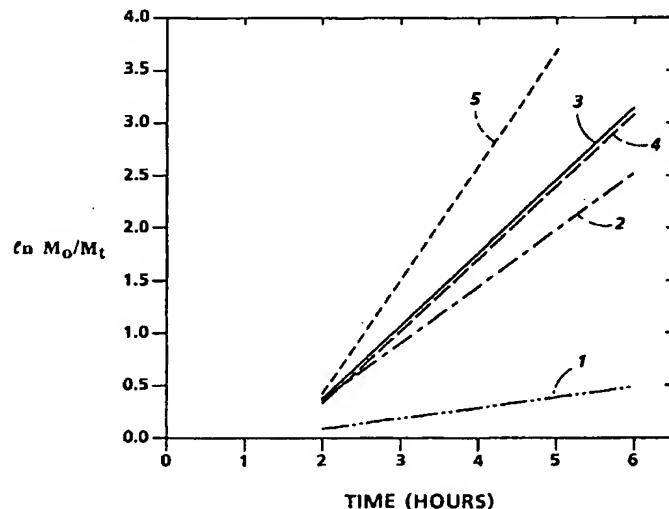
(74) Representative: Reynolds, Julian David et al
Rank Xerox Ltd
Patent Department
Parkway
Marlow Buckinghamshire SL7 1YL (GB)

(54) **Rate enhanced polymerization processes for producing polymers having narrow polydispersity**

(57) A polymerization process for the preparation of thermoplastic resin or resins comprising heating a mixture comprised of a free radical initiator, a stable free radical agent, at least one polymerizable monomer com-

pound, and a sulfonic acid salt polymerization rate enhancing compound, to form a thermoplastic resin or resins with a high monomer to polymer conversion and a narrow polydispersity.

FIG. 1



EP 0 735 052 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	WO-A-94 11412 (XEROX CORP) 26 May 1994 * the whole document *	1-10	C08F2/38
D,A	& US-A-5 401 804	1-10	C08F4/04
D,A	& US-A-5 332 912	1-10	C08F4/28
	---		C08F212/00
P,X	MACROMOLECULES, vol. 28, no. 24, 20 November 1995, COLUMBUS, XP002007955 P.G. ODELL ET AL.: "Rate Enhancement of Living Free-Radical Polymerizations by an Organic Acid Salt" * page 8453 - page 8455 *	1-10	C08F220/00
A	PATENT ABSTRACTS OF JAPAN vol. 017, no. 413 (C-1092), 3 August 1993 & JP-A-05 086106 (SEKISUI PLASTICS CO LTD), 6 April 1993, * abstract *	1-3,10	
A	US-A-5 283 153 (SACRIPANTE GUERINO G ET AL) 1 February 1994 * column 10, line 35 - line 42; claims *	1-3,10	
	-----		TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C08F
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	23 August 1996	Kaumann, E	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			